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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/15/2003 Kentaro Nagoshi SIW-067 9456 10/688,303 **EXAMINER** 04/11/2006 LAHIVE & COCKFIELD ALEJANDRO, RAYMOND 28 STATE STREET ART UNIT PAPER NUMBER BOSTON, MA 02109 1745

DATE MAILED: 04/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		T A 11 AL AL		
•		Application No.	Applicant(s)	
Office Action Summary		10/688,303	NAGOSHI ET AL.	
		Examiner	Art Unit	
	The MAILING DATE of this communication and	Raymond Alejandro	1745	
Period fo	The MAILING DATE of this communication app or Reply	rears on the cover sileet with the	corresponaence adaress	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 15 O	ctober 2003.		
2a) <u></u> ☐	a) ☐ This action is FINAL . 2b) ☑ This action is non-final.			
3)□	,,,,			
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposit	ion of Claims		•	
5) 6) 7)	Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-15 are subject to restriction and/or expressions.	vn from consideration.		
	ion Papers	•		
_	·			
	The specification is objected to by the Examine The drawing(s) filed onis/are: a) _ acceptance		Evaminer	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
•	Replacement drawing sheet(s) including the correcti	•		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority u	under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) _l	a) All b) Some * c) None of:			
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 			
	3. Copies of the certified copies of the priority documents have been received in this National Stage			
	application from the International Bureau (PCT Rule 17.2(a)).			
* 8	See the attached detailed Office action for a list of	of the certified copies not receive	ed.	
			•	
Attachmen	t(s)			
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)				
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)	
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DETAILED ACTION

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Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-7, drawn to a separator comprising specific diffusion layers, classified in class 204, subclass 295.
- II. Claims 8-10, drawn to methods for fabricating a separator assembly including laser-weld, classified in class 156, subclass 272.8.
- III. Claims 11-15, drawn to a fuel cell unit/stack, classified in class 429, subclass 34. The inventions are distinct, each from the other because of the following reasons:
- 2. Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product as claimed can be made by another and materially different process, (as disclosed and claimed by the applicant) the separator can be made by different methods as shown in the methods of Figure 2, or Figure 3, or Figure 7, or Figure 8.
- 3. Inventions III and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination of Group III (i.e. the fuel cell unit/stack) require for

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patentability other separator assemblies as those shown in Figure 1, or Figure 4, or Figure 5, or Figure 8, or Figure 9 or Figure 10 or Figure 11. Thus, the requirement of AB_{sp} and B_{sp} is not met. The subcombination has separate utility such as providing a suitable electrical separating component.

- 4. Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs, modes of operation, and effects, for example, invention II are method methods for fabricating a separator assembly including laser-weld; while invention II is directed to a fuel cell which is a device for generation electrochemical energy.
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 6. Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Additionally, further restriction is necessary. Hence, applicant must elect one (1) of the above groups and one (1) of the species below.

7. This application contains claims directed to the following patentably distinct species:

Species 1: the first embodiment of Figure 1;

Species 2: the first embodiment of Figure 2;

Species 3: the second embodiment of Figure 3;

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Species 4: the third embodiment of Figure 4;

Species 5: the fourth embodiment of Figure 5;

Species 6: the fourth embodiment of Figure 6;

Species 7: the fifth embodiment of Figure 7;

Species 8: the sixth embodiment of Figure 8;

Species 9: the seventh embodiment of Figure 9;

Species 10: the eight embodiment of Figure 10;

Species 11: the ninth embodiment of Figure 11;

Note: The embodiments supra are presented herein for purpose of species elections <u>as</u> <u>applicable</u> to either the separator assembly, or the method for fabricating the separator; or the fuel cell.

The species are independent or distinct because they all represent mutually exclusive embodiments that do not overlap in scope.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears to be generic.

Applicant is advised that a reply to this requirement <u>must include an identification of the</u>

<u>species that is elected consonant with this requirement, and a listing of all claims readable</u>

<u>thereon, including any claims subsequently added.</u> An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an

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allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

8. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Alejandro whose telephone number is (571) 272-1282. The examiner can normally be reached on Monday-Thursday (8:00 am - 6:30 pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Raymond Alejandro Primary Examiner Art Unit 1745

RAYMOND ALEJANDRO PRIMARY EXAMINER